

SANYO SCROLL COMPRESSORS

For Air Conditioning For Refrigeration



C-SB Series

C-SC Series

C-SD Series

R22

R22 - B8 (50Hz 380-415V / 60Hz 440-460V)

	Out Put	Displac		0			50	Hz			60H	z		
Phase	Out Put	ement	Compressor	Compressor	Starting Method	Nominal	Capacity	C	OP	Nominal C	apacity	С	OP	Outline Graph Code
	HP	cm ³ /rev	Model	Code	Method	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	Code
		51.8	C-SB263H8B	809 831 88	—	9.15	31.2	3.10	10.6	11.2	38.2	3.20	10.9	В
	3.5	51.0	C-SB263H8C	809 832 88	—	9.15	31.2	3.10	10.6	11.2	38.2	3.20	10.9	А
		55.7	C-SB263H8A	809 830 88	-	9.60	32.8	3.10	10.6	11.8	40.3	3.19	10.9	В
	4	66.8	C-SB303H8A	809 840 88	—	11.8	40.3	3.23	11.0	14.4	49.2	3.27	11.2	А
	4	00.0	C-SB303H8G	809 846 88	-	11.8	40.3	3.23	11.0	14.4	49.2	3.27	11.2	At
	4.5	77.4	C-SB353H8A	809 842 88	—	13.5	46.1	3.18	10.9	16.7	57.0	3.28	11.2	А
	4.5	11.4	C-SB353H8G	809 847 88	—	13.5	46.1	3.18	10.9	16.7	57.0	3.28	11.2	At
		83.2	C-SB373H8A	809 850 88	-	14.5	49.5	3.19	10.9	17.9	61.1	3.23	11.0	А
	5	03.2	C-SB373H8G	809 856 88	—	14.5	49.5	3.19	10.9	17.9	61.1	3.23	11.0	At
		85.5	C-SB373H8F	809 855 88	—	15.0	51.2	3.19	10.9	18.4	62.8	3.20	10.9	А
	5.5	90.6	C-SBR195H38A	—	—	16.0	54.6	3.20	10.9	19.4	66.2	3.23	11.0	А
			C-SB453H8A	809 860 88	-	17.7	60.4	3.26	11.1	21.5	73.4	3.24	11.1	А
	6	100.0	C-SB453H8F	809 865 88	-	17.7	60.4	3.26	11.1	21.5	73.4	3.24	11.1	Jt
3			C-SB453H8G	809 866 88	-	17.7	60.4	3.26	11.1	21.5	73.4	3.24	11.1	At
	7	110.2	C-SBR235H38A	—	-	19.2	65.6	3.20	10.9	23.2	79.2	3.27	11.2	А
	'	110.2	C-SBR235H38B	—	—	19.2	65.6	3.20	10.9	23.2	79.2	3.27	11.2	At
		131.9	C-SC583H8H	809 284 88	—	23.6	80.6	3.30	11.3	28.5	97.3	3.26	11.1	D
	8	131.9	C-SC583H8K	809 286 88	-	23.6	80.6	3.30	11.3	28.5	97.3	3.26	11.1	Dt
	0	137.0	C-SC603H8H	809 281 88	—	24.5	83.6	3.31	11.3	29.6	101.1	3.29	11.2	D
		137.0	C-SC603H8K	809 283 88	-	24.5	83.6	3.31	11.3	29.6	101.1	3.29	11.2	Dt
	9	148.8	C-SC673H8H	809 291 88	—	26.5	90.5	3.29	11.2	32.0	109.3	3.27	11.2	D
	9	140.0	C-SC673H8K	809 293 88	-	26.5	90.5	3.29	11.2	32.0	109.3	3.27	11.2	Dt
	10	171.2	C-SC753H8H	809 201 88	—	30.6	104.5	3.38	11.5	36.9	126.0	3.32	11.3	E
	10	171.2	C-SC753H8K	809 203 88	—	30.6	104.5	3.38	11.5	36.9	126.0	3.32	11.3	Et
		199.1	C-SC863H8H	809 224 88	—	35.2	120.2	3.32	11.3	-	—	-	—	Е
	12	205.4	C-SC903H8H	809 221 88	—	36.1	123.3	3.31	11.3	_	—	_	—	E
		205.4	C-SC903H8K	809 223 88	—	36.1	123.3	3.31	11.3	_	—	_	—	Et

R22 - B8 (50Hz 380-415V / 60Hz 440-460V)

Hi-COP Models

	Out Put	Displac	Compressor	Compressor	Charting		50	Hz			60H	z		
Phase	OutFut	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Nominal C	apacity	C	OP	Outline Graph Code
	HP	cm ³ /rev	Woder	Code	Wethod	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	0000
	3.5	55.7	C-SBX120H38A	_	—	10.0	34.1	3.35	11.4	12.0	41.0	3.38	11.5	Developing
	4	66.8	C-SBX145H38A	-	—	12.0	41.0	3.40	11.6	14.6	49.8	3.42	11.7	Developing
	4.2	70.1	C-SBX150H38A	—	-	12.5	42.7	3.40	11.6	15.0	51.2	3.42	11.7	А
	4.4	73.2	C-SBX160H38A	—	—	13.1	44.7	3.40	11.6	15.8	53.9	3.42	11.7	А
			C-SBX165H38A	—	-	13.5	46.1	3.33	11.4	16.3	55.7	3.33	11.4	А
	4.5	76.0	C-SBX165H38B	—	-	13.5	46.1	3.33	11.4	16.3	55.7	3.33	11.4	At
3			C-SBX165H38C	—	-	13.6	46.4	3.32	11.3	16.5	56.3	3.33	11.4	А
		81.0	C-SBX180H38A	—	-	14.3	48.8	3.33	11.4	17.3	59.1	3.33	11.4	А
	5	01.0	C-SBX180H38B	—	—	14.3	48.8	3.33	11.4	17.3	59.1	3.33	11.4	At
	5	83.7	C-SBX180H38C	—	-	14.7	50.2	3.30	11.3	17.8	60.8	3.30	11.3	А
		03.7	C-SBX180H38D	—	-	14.7	50.2	3.30	11.3	17.8	60.8	3.30	11.3	At
	5.5	90.6	C-SBX195H38A	—	—	16.3	55.7	3.33	11.4	19.8	67.6	3.38	11.5	А
	6	100.0	C-SBX215H38P	_	_	17.7	60.4	3.33	11.4	21.5	73.4	3.33	11.4	А

R22 - B8 (50Hz 380-415V / 60Hz 440-460V)

50Hz Cooling 50Hz Heating Displac Out Put Compressor Compressor Starting Outline Graph ement Phase Nominal Capacity COP Nominal Capacity COP Model Code Method Code HP kW kBTU/h W/W BTU/Wh kW kBTU/h W/W BTU/Wh cm³/rev 35.2 Developing C-SBR120H38Q 10.0 34.1 11.4 3.5 55.7 3.21 11.0 10.3 3.33 --C-SBR145H38Q 40.6 Developing 4 66.8 11.9 3.25 11.1 12.0 41.0 3.33 11.4 — — 3 Developing 5 83.2 C-SBR180H38Q 14.8 50.5 3.33 11.4 14.8 50.5 3.36 11.5 — — C-SCR295H38Q 24.5 3.31 24.5 83.6 3.36 11.5 8 137.0 _ — 83.6 11.3 Developing 10 171.2 C-SCR370H38Q 30.6 104.5 3.38 11.5 29.6 101.1 3.36 11.5 _ _ Developing

EVI Models

R22 - B5 (50Hz 220-240V)

	Out Put	Displac	0	0	Olection		50	Hz		
Phase	OutPut	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Outline Graph Code
	HP	cm ³ /rev	Woder	Code	Wethod	kW	kBTU/h	W/W	BTU/Wh	0000
		51.8	C-SB261H5B	809 831 45	CSR	9.10	31.1	2.94	10.0	A
	3.5	51.0	C-SBR110H15A	_	PSC	9.10	31.1	2.94	10.0	A
	5.5	55.7	C-SB261H5A	809 830 45	CSR	9.70	33.1	2.98	10.2	A
		55.7	C-SBR120H15A		PSC	9.70	33.1	2.98	10.2	A
	4	66.8	C-SB301H5A	809 840 45	CSR	11.7	39.9	3.12	10.7	А
1	4	00.0	C-SBR145H15A		PSC	12.7	43.4	3.12	10.7	A
	4.5	77.4	C-SB351H5A	809 842 45	PSC	13.7	46.8	3.08	10.5	A
	4.5	77.4	C-SBR165H15A		PSC	13.7	46.8	3.08	10.5	А
	5	83.2	C-SB371H5A	809 850 45	PSC	14.7	50.2	3.16	10.8	А
	5	03.2	C-SBR180H15A		PSC	14.7	50.2	3.16	10.8	Developing
	5.8	93.1	C-SBR200H15H		PSC	16.4	56.0	3.12	10.7	J
	4	66.8	C-SB303H5A	809 840 85		11.7	39.9	3.16	10.8	А
	5	83.2	C-SB373H5A	809 850 85	1	14.7	50.2	3.16	10.8	А
3	6	100.0	C-SB453H5A	809 860 85	1	17.8	60.8	3.24	11.1	А
3	8	137.0	C-SC603H5H	809 281 85		24.2	82.6	3.29	11.2	D
	10	171.2	C-SC753H5H	809 201 85		30.6	104.5	3.36	11.5	E
	12	205.4	C-SC903H5H	809 221 85	_	36.0	122.9	3.30	11.3	F

R22 - B5 (50Hz 220-240V)

Hi-COP Models

T3 Models

	Out Put	Displac	Comprosoor	Comprosoor	Starting		50	Hz		O dline Oreste
Phase	OutPut	ement	Compressor Model	Compressor Code	Method	Nominal	Capacity	C	OP	Outline Graph Code
	HP	cm ³ /rev	Woder	Code	Mounou	kW	kBTU/h	W/W	BTU/Wh	
1	4	66.8	C-SBX145H15A	—	PSC	12.0	41.0	3.30	11.3	Developing
	5	83.2	C-SBX180H15A	_	PSC	14.7	50.2	3.25	11.1	Developing

R22 - B5 (50Hz 220-240V)

	Out Put	Displac	Compressor	Compressor	Otartian		50	Hz		
Phase	OutPut	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	CC	OP	Outline Graph Code
	HP	cm ³ /rev	Woder	Code	Wethod	kW	kBTU/h	W/W	BTU/Wh	0000
1	3.5	55.7	C-SBR120H15P	—	PSC	9.70	33.1	2.98	10.2	А
	4	66.8	C-SBR145H15P	_	PSC	11.8	40.3	3.19	10.9	А
	4.5	77.4	C-SBR165H15P	_	PSC	13.7	46.8	3.08	10.5	Developing

R22- B5 (50Hz 220-240V)

		Out Put	Displac	0	0	Charting		50Hz (Cooling			50Hz He	eating		
P	Phase		ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Nominal C	apacity	C	OP	Outline Graph Code
		HP	cm ³ /rev	Woder	CODE	Method	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	
	1	3.5	55.7	C-SBR120H15Q	—	PSC	10.6	36.2	3.02	10.3	10.8	36.9	3.21	11.0	Developing
		4	66.8	C-SBR145H15Q	_	PSC	12.4	42.3	3.15	10.8	12.1	41.3	3.32	11.3	Developing

R22 - B9 (60Hz 380V)

	Out Put	Displac	0	0			60	Hz		
Phase	OutFut	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Outline Graph Code
	HP	cm ³ /rev	Woder	Code	mourou	kW	kBTU/h	W/W	BTU/Wh	
		51.8	C-SB263H9B	809 831 89	—	10.9	37.2	3.03	10.3	В
	3.5	51.0	C-SB263H9C	809 832 89	-	10.9	37.2	3.03	10.3	А
		55.7	C-SB263H9A	809 830 89	—	11.8	40.3	2.98	10.2	А
	4	66.8	C-SB303H9A	809 840 89	—	14.2	48.5	3.23	11.0	А
	4	00.0	C-SB303H9G	809 846 89	—	14.2	48.5	3.23	11.0	At
	4.5	77.4	C-SB353H9A	809 842 89	—	16.6	56.7	3.25	11.1	А
	5	83.2	C-SB373H9A	809 850 89	—	17.8	60.8	3.24	11.1	А
3	5	03.2	C-SB373H9G	809 856 89	—	17.8	60.8	3.24	11.1	At
	6	100.0	C-SB453H9A	809 860 89	—	21.2	72.4	3.24	11.1	А
	0	100.0	C-SB453H9G	809 866 89	—	21.2	72.4	3.24	11.1	At
	8	137.0	C-SC603H9H	809 281 89	—	29.6	101.1	3.29	11.2	D
	0	137.0	C-SC603H9K	809 283 89	—	29.6	101.1	3.29	11.2	Dt
	10	171.2	C-SC753H9H	809 201 89	—	37.3	127.3	3.36	11.5	E
	10	171.2	C-SC753H9K	809 203 89	—	37.3	127.3	3.36	11.5	Et
	12	205.4	C-SC903H9H	809 221 89	-	44.4	151.6	3.31	11.3	Developing

EVI Models

R22 - B6 (60Hz 208-230V)

	Out Put	Displac	0	0			60	Hz		
Phase	Out Put	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Outline Graph Code
	HP	cm ³ /rev	woder	Code	Wethou	kW	kBTU/h	W/W	BTU/Wh	Couc
		51.8	C-SB261H6C	809 832 46	CSR	11.2	38.2	3.11	10.6	А
		51.0	C-SBR110H16A	—	PSC	11.2	38.2	3.11	10.6	А
	3.5		C-SB261H6A	809 830 46	CSR	12.1	41.3	3.23	11.0	А
		55.7	C-SBR120H16A	—	PSC	12.1	41.3	3.23	11.0	А
			C-SB261H6D	809 833 46	PSC	12.1	41.3	3.23	11.0	A倒三
1	4	66.8	C-SB301H6B	809 841 46	CSR	14.5	49.5	3.26	11.1	А
	4	00.0	C-SBR145H16A	—	PSC	14.5	49.5	3.26	11.1	А
			C-SB351H6A	809 842 46	CSR	16.8	57.4	3.20	10.9	As
	4.5	77.4	C-SBR165H16A	—	PSC	16.8	57.4	3.20	10.9	As
			C-SB351H6C	809 844 46	PSC	16.8	57.4	3.20	10.9	A倒三
	5	83.2	C-SB371H6A	809 850 46	CSR	18.0	61.5	3.13	10.7	А
	3.5	51.8	C-SB263H6C	809 832 86	—	11.1	37.9	3.13	10.7	А
	3.5	55.7	C-SB263H6B	809 831 86	—	11.9	40.6	3.22	11.0	А
			C-SB303H6A	809 840 86	-	14.4	49.2	3.27	11.2	As
	4	66.8	C-SB303H6B	809 841 86	—	14.4	49.2	3.27	11.2	А
			C-SB303H6G	809 846 86	—	14.4	49.2	3.27	11.2	At
	4.5	77.4	C-SB353H6B	809 843 86	—	16.8	57.4	3.29	11.2	А
	4.5	//.4	C-SB353H6C	809 844 86	-	16.8	57.4	3.29	11.2	А
			C-SB373H6A	809 850 86	—	18.1	61.8	3.32	11.3	As
	5	83.2	C-SB373H6B	809 851 86	—	18.1	61.8	3.32	11.3	А
			C-SB373H6G	809 856 86	-	18.1	61.8	3.32	11.3	At
3			C-SB453H6A	809 860 86	—	21.3	72.7	3.25	11.1	As
	6	100.0	C-SB453H6B	809 861 86	-	21.3	72.7	3.25	11.1	А
			C-SB453H6G	809 866 86	—	21.3	72.7	3.25	11.1	At
	7	110.2	C-SBR235H36A		—	23.3	79.6	3.28	11.2	Developing
		131.9	C-SC583H6H	809 284 86	—	27.9	95.3	3.19	10.9	D
	8	137.0	C-SC603H6H	809 281 86	—	29.6	101.1	3.31	11.3	D
			C-SC603H6K	809 283 86	—	29.6	101.1	3.31	11.3	Dt
	9	148.8	C-SC673H6H	809 291 86	—	32.3	110.3	3.38	11.5	E
	10	171.2	C-SC753H6H	809 201 86	—	37.0	126.3	3.36	11.5	E
			C-SC753H6K	809 203 86	—	37.0	126.3	3.36	11.5	Et
	12	205.4	C-SC903H6H	809 221 86	—	43.2	147.5	3.15	10.8	Developing

R22 - B6 (60Hz 208-230V)

T3 Models

	Out Put	Displac	Comproseer	Comprosoor	Otenting		60	Hz		
Phase	OutPut	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Outline Graph Code
	HP	cm ³ /rev	Model	Code	Mounou	kW	kBTU/h	W/W	BTU/Wh	
	3.5	55.7	C-SBR120H16P	—	CSR	11.9	40.6	3.09	10.5	А
1	4	66.8	C-SBR145H16P		CSR	14.4	49.2	3.20	10.9	А
'	4.5	77.4	C-SBR165H16P	-	CSR	16.8	57.4	3.20	10.9	As
	5	83.2	C-SBR180H16N	_	CSR	18.1	61.8	3.12	10.7	_

R22 - B6 (60Hz 208-230V)

SPA Models (condensing temp.max60[°]C)

	Out Put	Displac	Compressor	Comproser	Otenting		60	Hz		
Phase	OutPut	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Outline Graph Code
	HP	cm ³ /rev	Woder	Code	Method	kW	kBTU/h	W/W	BTU/Wh	
	5	83.2	C-SBR180H16Y	_	PSC	17.9	61.1	3.03	10.3	J
1	5.8	93.1	C-SBR200H16Y		PSC	19.9	67.9	3.06	10.4	J
	6	100.0	C-SBR215H16Y		PSC	21.5	73.4	3.05	10.4	J
	7	110.2	C-SBR235H16Y		PSC	23.4	79.9	3.10	10.6	J

R22 - Inverter Drive Models (AC)

	Out Put	Displac	Comprosoor	Compressor			90	Hz		
Phase		ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Outline Graph Code
	HP	cm ³ /rev	Woder	Code	Method	kW	kBTU/h	W/W	BTU/Wh	0000
2	5	55.7	C-SBV180H00A	—	AC Inv	18.0	61.5	3.00	10.2	J
3	5	55.7	C-SBV180H00B	_	AC Inv	18.0	61.5	3.00	10.2	Jt

R407C

		Displac		0			50	Hz			60	Hz		Outline
Phase	Out Put	ement	Compressor	Compressor	Starting	Nominal	Capacity	C	OP	Nominal	Capacity	C	OP	Graph
	HP	cm ³ /rev	Model	Code	Method	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	Code
	3.5	55.7	C-SBN263H8A	809 930 88	—	9.60	32.8	2.87	9.8	11.8	40.3	2.87	9.8	В
	4	66.8	C-SBN303H8A	809 940 88	—	11.6	39.6	3.05	10.4	14.6	49.8	3.17	10.8	А
	4	00.0	C-SBN303H8G	809 946 88	—	11.6	39.6	3.05	10.4	14.6	49.8	3.17	10.8	At
	4.5	77.4	C-SBN353H8A	809 942 88	-	13.4	45.8	2.91	9.9	16.5	56.3	2.95	10.1	А
	4.5	77.4	C-SBN353H8G	809 944 88	—	13.4	45.8	2.91	9.9	16.5	56.3	2.95	10.1	At
	5	83.2	C-SBN373H8A	809 950 88	—	14.5	49.5	2.93	10.0	17.8	60.8	2.99	10.2	А
	5	03.2	C-SBN373H8G	809 956 88	—	14.5	49.5	2.93	10.0	17.8	60.8	2.99	10.2	At
	6	100.0	C-SBN453H8A	809 960 88	—	17.6	60.1	3.03	10.3	21.3	72.7	3.04	10.4	А
	0	100.0	C-SBN453H8G	809 966 88	—	17.6	60.1	3.03	10.3	21.3	72.7	3.04	10.4	At
3	7	110.2	C-SBS235H38A		—	19.5	66.6	3.10	10.6	23.4	79.9	3.10	10.6	А
	'	110.2	C-SBS235H38B	—	—	19.5	66.6	3.10	10.6	23.4	79.9	3.10	10.6	At
		131.9	C-SCN583H8H	809 184 88	—	23.6	80.6	3.13	10.7	28.0	95.6	3.03	10.3	D
	8	131.9	C-SCN583H8K	809 186 66	—	23.6	80.6	3.13	10.7	28.0	95.6	3.03	10.3	Dt
	0	137.0	C-SCN603H8H	809 181 88	-	24.5	83.6	3.16	10.8	29.1	99.4	3.08	10.5	D
		137.0	C-SCN603H8K	809 183 88	—	24.5	83.6	3.16	10.8	29.1	99.4	3.08	10.5	Dt
	10	171.2	C-SCN753H8H	809 101 88	-	29.9	102.1	3.20	10.9	35.9	122.6	3.12	10.7	E
	10	171.2	C-SCN753H8K	809 103 88	_	29.9	102.1	3.20	10.9	35.9	122.6	3.12	10.7	Et
	12	205.4	C-SCN903H8H	809 121 88	_	34.9	119.2	3.09	10.5	_	—	_	—	E
	12	205.4	C-SCN903H8K	809 123 88	—	34.9	119.2	3.09	10.5		—		—	Et

R407C - B8 (50Hz 380-415V / 60Hz 440-460V)

R407C - B8 (50Hz 380-415V / 60Hz 440-460V)

	0.10.1	Displac	0	0	01.01		50	Hz			601	Ηz		Outline
Phase	Out Put	ement	Compressor	Compressor	Starting	Nominal	Capacity	C	OP	Nominal	Capacity	C	OP	Graph
Phase	HP	cm ³ /rev	Model	Code	Method	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	Code
3	4.5	77.4	C-SBS165H38P	—	—	13.4	45.8	2.91	9.9	16.5	56.3	2.95	10.1	А
3	6	83.2	C-SBS215H38P	—	—	17.6	60.1	3.03	10.3	21.3	72.7	3.04		А

R407C - B8 (50Hz 380-415V / 60Hz 440-460V)

	Out Put	Displac	Compressor	Compressor	Ctarting		50Hz (Cooling			50Hz H	leating		Outline
Phase	OutPut	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Nominal	Capacity	C	OP	Graph
	HP	cm ³ /rev	Woder	Code	Wethou	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	DP BTU/Wh 10.9 10.9 10.9 11.0 11.1	Code
	3.5	55.7	C-SBS120H38Q	—	-	10.1	34.5	3.00	10.2	10.5	35.8	3.18	10.9	Developing
	4	66.8	C-SBS145H38Q	_	—	12.1	41.3	3.10	10.6	12.2	41.7	3.20	10.9	Developing
3	5	83.2	C-SBS180H38Q		—	15.3	52.2	3.14	10.7	15.0	51.2	3.20	10.9	Developing
	8	137.0	C-SCS295H38Q		—	24.5	83.6	3.16	10.8	24.6	84.0	3.22	11.0	Developing
	10	171.2	C-SCS370H38Q	_	—	29.9	102.1	3.20	10.9	30.7	104.8	3.25	11.1	Developing

R407C - B5 (50Hz 220-240V)

50Hz Cooling 50Hz Heating Displac Outline Starting Out Put Compressor Compressor ement Phase Nominal Capacity COP Nominal Capacity COP Graph Code Method Model Code HP cm³/rev kW kBTU/h W/W BTU/Wh kW kBTU/h W/W BTU/Wh 3.5 55.7 C-SBS120H15Q _ PSC 10.0 34.1 2.80 9.6 9.8 33.5 2.94 10.0 Developing 1 4 66.8 C-SBS145H15Q _ PSC 12.5 42.7 3.00 10.2 12.3 42.0 3.13 10.7 Developing

T3 Models

EVI Models

EVI Models

R407C - B5 (50Hz 220-240V)

	Out Put	Displac	0	0	Quality		50	Hz		Outline
Phase	OutPut	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Graph
	HP	cm ³ /rev	Woder	Code	Method	kW	kBTU/h	W/W	BTU/Wh	Code
	3.5	55.7	C-SBN261H5A	809 930 45	CSR	9.70	33.1	2.85	9.7	А
	3.5	55.7	C-SBS120H15A	_	PSC	9.70	33.1	2.85	9.7	А
	4	66.8	C-SBN301H5A	809 940 45	CSR	11.8	40.3	2.95	10.1	А
	4	00.0	C-SBS145H15A	—	PSC	11.8	40.3	2.95	10.1	А
1	4.5	77.4	C-SBN351H5A	809 942 45	PSC	13.5	46.1	2.84	9.7	А
	4.5	77.4	C-SBS165H15A	-	PSC	13.5	46.1	2.84	9.7	А
	5	83.2	C-SBN371H5A	809 950 45	PSC	14.5	49.5	2.91	9.9	А
	5	03.2	C-SBS180H15A	-	PSC	14.5	49.5	2.91	9.9	Developing
	5.8	93.1	C-SBS200H15H	_	—	-		_	—	Developing
	3.5	55.7	C-SBN263H5A	809 930 85	—	9.85	33.6	2.94	10.0	А
	4	66.8	C-SBN303H5A	809 940 85	—	11.5	39.3	2.99	10.2	А
	5	83.2	C-SBN373H5A	809 950 85	—	14.7	50.2	2.91	9.9	А
3	6	100.0	C-SBN453H5A	809 960 85	—	17.7	60.4	3.00	10.2	А
3	8	131.9	C-SCN583H5H	809 184 85	—	23.7	80.9	3.14	10.7	D
	0	137.0	C-SCN603H5H	809 181 85	—	24.2	82.6	3.14	10.7	D
	10	171.2	C-SCN753H5H	809 101 85	—	29.9	102.1	3.18	10.9	E
	12	205.4	C-SCN903H5H	809 121 85	_	34.8	118.8	3.08	10.5	E

R407C - B9 (60Hz 380V)

	Out Put	Displac	0	0			60	Hz		Outline
Phase	OutPut	ement	Compressor	Compressor	Starting	Nominal	Capacity	C	OP	Graph
	HP	cm ³ /rev	Model	Code	Method	kW	kBTU/h W/V	W/W	BTU/Wh	Code
3	5	83.2	C-SBN373H9A	809 950 89	—	18.0	61.5	3.05	10.4	А

R410A

R410A - B8 (50Hz 380-415V / 60Hz 440-460V)

	Out Put	Displac	0	0	Obertine		50	Hz			601	Ηz	COP W/W BTU/Wh - - 2.76 9.4 2.87 9.8 2.87 9.8 2.87 9.8 2.97 10.1 2.97 10.1 3.05 10.4 3.05 10.4 3.01 10.3	Outline
Phase	OutPut	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Nominal	Capacity	C	OP	Graph
	HP	cm ³ /rev	Woder	Code	Method	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W BTU/Wh - - 2.76 9.4 2.87 9.8 2.87 9.8 2.87 9.8 2.87 9.8 2.87 9.8 2.87 9.8 3.297 10.1 3.05 10.4 3.05 10.4 3.05 10.4 3.05 10.4 3.05 10.4 3.05 10.4 3.01 10.3	Code	
	3	35.0	C-SBN233H8E	809 934 88	—	8.60	29.4	-	—	_	—	-	—	А
	3.5	37.5	C-SBN263H8D	809 933 88	—	8.85	30.2	2.49	8.5	11.6	39.6	2.76	9.4	А
			C-SBN303H8D	809 943 88	—	9.80	33.5	2.68	9.2	12.2	41.7	2.87	9.8	А
	4	39.9	C-SBN303H8F	809 945 88	—	9.80	33.5	2.68	9.2	12.2	41.7	2.87	9.8	Jt
			C-SBN303H8H	809 947 88	—	9.80	33.5	2.68	9.2	12.2	41.7	2.87	9.8	At
	4.5	51.8	C-SBN353H8D	809 948 88	—	13.0	44.4	2.80	9.6	16.2	55.3	2.97	10.1	А
	4.5	51.0	C-SBN353H8H	809 949 88	—	13.0	44.4	2.80	9.6	16.2	55.3	2.97	10.1	At
3			C-SBN373H8D	809 953 88	—	14.1	48.1	2.97	10.1	17.1	58.4	3.05	10.4	А
5	5	55.7	C-SBN373H8F	809 955 88	—	14.1	48.1	2.97	10.1	17.1	58.4	3.05	10.4	Jt
			C-SBN373H8H	809 957 88	—	14.1	48.1	2.97	10.1	17.1	58.4	3.05	10.4	At
			C-SBN453H8D	809 963 88	—	16.4	56.0	2.85	9.7	20.3	69.3	3.01	10.3	А
	6	66.8	C-SBN453H8F	809 965 88	—	16.4	56.0	2.85	9.7	20.3	69.3	3.01	10.3	Jt
			C-SBN453H8H	809 967 88	—	16.4	56.0	2.85	9.7	20.3	69.3	3.01	10.3	At
			C-SBN523H8D	809 973 88	—	19.2	65.6	2.84	9.7		—	-	—	А
	7	77.4	C-SBN523H8F	809 975 88	—	19.2	65.6	2.84	9.7		—		—	Jt
			C-SBN523H8H	809 977 88	—	19.2	65.6	2.84	9.7		—		—	At

R410A - B8 (50Hz 380-415V / 60Hz 440-460V)

Hi-COP Models

	Out Put	Displac	0	0	Otenting		50	Hz			601	Ηz		Outline
Phase	OutPut	ement	Compressor Model	Compressor	Starting Method	Nominal	Capacity	C	OP	Nominal	Capacity	C	OP	Graph
	HP	cm ³ /rev	woder	Code	wethod	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	Code
	3.5	39.6	C-SBP120H38A	—	—	10.0	34.1	2.86	9.8	12.2	41.7	2.94	10.0	А
	3.5	39.0	C-SBP120H38B	—	_	10.0	34.1	2.86	9.8	12.2	41.7	2.94	10.0	At
	3.7	42.4	C-SBP130H38A	_	_	10.9	37.2	2.91	9.9	13.3	45.4	3.02	10.3	А
	5.7	42.4	C-SBP130H38B			10.9	37.2	2.91	9.9	13.3	45.4	3.02	10.3	At
	4	46.4	C-SBP140H38A			11.7	39.9	2.93	10.0	14.3	48.8	3.01	10.3	А
	4	40.4	C-SBP140H38B	_		11.7	39.9	2.93	10.0	14.3	48.8	3.01	10.3	At
	4.6	51.8	C-SBP160H38A			13.2	45.1	2.87	9.8	16.2	55.3	2.98	10.2	А
	4.0	51.0	C-SBP160H38B			13.2	45.1	2.87	9.8	16.2	55.3	2.98	10.2	At
	5	55.7	C-SBP170H38A			14.2	48.5	2.99	10.2	17.3	59.1	3.04	10.4	А
	5	55.7	C-SBP170H38B			14.2	48.5	2.99	10.2	17.3	59.1	3.04	10.4	At
3	6	66.8	C-SBP205H38A	_	-	16.8	57.4	3.00	10.2	20.6	70.3	3.10	10.6	А
	0	00.0	C-SBP205H38B	_	—	16.8	57.4	3.00	10.2	20.6	70.3	3.10	10.6	At
	8	89.2	C-SCP270H38A			22.4	76.5	3.03	10.3	27.2	92.9	3.1	10.4	D
	0	09.2	C-SCP270H38B			22.4	76.5	3.03	10.3	27.2	92.9	3.1	10.4	Dt
	10	104.1	C-SCP315H38A	—	—	26.0	88.8	3.02	10.3	31.4	107.2	3.0	10.3	E
	10	104.1	C-SCP315H38B			26.0	88.8	3.02	10.3	31.4	107.2	3.0	10.3	Et
	11	120.2	C-SCP360H38A	_	_	29.8	101.7	3.01	10.3	35.9	122.6	3.0	10.3	E
		120.2	C-SCP360H38B			29.8	101.7	3.01	10.3	35.9	122.6	3.0	10.3	Et
	12	131.9	C-SCP360H38A	_	_	32.8	112.0	3.01	10.3				—	E
	12	131.9	C-SCP360H38B	—	—	32.8	112.0	3.01	10.3				—	Et
	15	171.2	C-SCP510H38A	—	-	42.2	144.1	3.15	10.8	—	—	-	—	Developing

R410A - B5 (50Hz 220-240V)

	Out Put	Displac	0	0	Otenting		50	Hz		Outline
Phase	OutPut	ement	Compressor Model	Compressor	Starting	Nominal	Capacity	C	OP	Graph
	HP	cm ³ /rev	wodel	Code	Method	kW	kBTU/h	W/W	BTU/Wh	Code
	3	35.0	C-SBN231H5E	809 934 45	PSC	8.60	29.4	2.42	8.3	А
1	3.5	37.5	C-SBN261H5D	809 933 45	PSC	9.35	31.9	2.46	8.4	А
	4	39.9	C-SBN301H5D	809 943 45	PSC	9.70	33.1	2.49	8.5	А

R410A - B5 (50Hz 220-240V)

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		-			_	-	-	<u> </u>	-

	Out Put	Displac	0	0	Otenting		50	Hz		Outline
Phase	OutPut	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Graph
	HP	cm ³ /rev	woder	Code	wethod	kW	kBTU/h	W/W	BTU/Wh	Code
	3.5	39.9	C-SBP120H15A	_	PSC	9.80	33.5	2.80	9.6	Developing
	3.5	39.9	C-SBP120H15B		PSC	9.80	33.5	2.80	9.6	Developing
1	4	46.4	C-SBP140H15A		PSC	11.60	39.6	2.85	9.7	Developing
'	4	40.4	C-SBP140H15B	—	- PSC 11.60 39.6 - PSC 11.60 39.6	39.6	2.85	9.7	Developing	
	4.6	51.8	C-SBP160H15A		PSC	13.00	44.4	2.80	9.6	А
	4.0	51.0	C-SBP160H15B	_	PSC	13.00	44.4	2.80	9.6	At

R410A - B6 (60Hz 208-230V)

Hi-COP Models

	Out Put	Displac		0	01		60	Hz		Outline
Phase	Out Put	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Graph
	HP	cm ³ /rev	Woder	Code	wethou	kW	kBTU/h	W/W	BTU/Wh	Code
	3.5	39.9	C-SBP120H16A	_	PSC	12.0	41.0	2.85	9.7	Developing
	3.7	42.4	C-SBP130H16A	-	PSC	13.0	44.4	2.90	9.9	Developing
1	4	46.4	C-SBP140H16A	—	PSC	14.2	48.5	2.90	9.9	Developing
	4.3	48.9	C-SBP150H16A	—	PSC	14.8	50.5	3.00	10.2	Developing
	4.6	51.8	C-SBP160H16A	—	PSC	15.8	53.9	3.00	10.2	Developing
	3.5	39.9	C-SBP120H36A	—	—	12.2	41.7	2.80	9.6	А
	3.5	39.9	C-SBP120H36B	—	_	12.2	41.7	2.80	9.6	At
3	4.0	54.0	C-SBP160H36A	—	—	16.1	55.0	2.93	10.0	А
3	4.6	51.8	C-SBP160H36B	_	—	16.1	55.0	2.93	10.0	At
	5	FF 7	C-SBP170H36A	—	_	17.4	59.4	3.05	10.4	А
	5	55.7	C-SBP170H36B	—	—	17.4	59.4	3.05	10.4	At

R410A - B6 (60Hz 208-230V)

SPA Models (condensing temp.max60°C)

	Out Put	Displac	Comprospor	Comprosoor	Starting		60	Hz		Outline
Phase	OurFui	ement	Compressor Model	Compressor Code	Method	Nominal	Capacity	C	OP	Graph
	HP	cm ³ /rev	Woder	Code	Method	kW	kBTU/h	COP Gr W/W BTU/Wh Cd 2.83 9.7 2.85 9.7	Code	
	5	55.7	C-SBP170H16Y	_	CSR	16.9	57.7	2.83	9.7	J
1	6	66.8	C-SBP205H16Y		CSR	20.3	69.3	2.85	9.7	J
	7	77.4	C-SBP230H16Y		CSR	23.3	79.6	2.85	9.7	J

R410A - B9 (60Hz 380V)

	Out Put	Displac					60	Hz		Outline
Phase	OutPut	ement	Compressor	Compressor	Starting	Nominal	Capacity	C	OP	Graph
	HP	cm ³ /rev	Model	Code	Method	kW	kBTU/h	W/W	BTU/Wh	Code
	3.5	39.9	C-SBP120H39B	_	—	11.8	40.3	2.80	9.6	Jt
3	5	55.7	C-SBN373H9F	809 955 89	_	16.9	57.7	2.96	10.1	Jt
	6	66.8	C-SBP205H39B	_	_	19.9	67.9	3.00	10.2	Jt

R410A - D Series

R410A - B8 (50Hz 380-415V / 60Hz 440-460V)

	Out Put	Displac		0	01		50	Hz			601	Ηz		Outline
Phase	Out Put	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	C	OP	Nominal	Capacity	C	OP	Graph
	HP	cm ³ /rev	woder	Code	wethod	kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	Code
	3.5	38.0	C-SDP120H38A		—	10.05	34.3	2.90	9.9	12.00	41.0	2.95	10.1	Developing
	5.5	38.0	C-SDP120H38B	—	-	10.05	34.3	2.90	9.9	12.00	41.0	2.95	10.1	Developing
	4	42.3	C-SDP135H38A	—	-	11.20	38.2	2.90	9.9	13.50	46.1	2.95	10.1	Developing
	4	42.3	C-SDP135H38B	—	—	11.20	38.2	2.90	9.9	13.50	46.1	2.95	10.1	Developing
3	5	55.7	C-SDP170H38A	—	-	14.10	48.1	3.00	10.2	16.80	57.4	3.05	10.4	Developing
3	5	55.7	C-SDP170H38B	—	—	14.10	48.1	3.00	10.2	16.80	57.4	3.05	10.4	Developing
	6	66.8	C-SDP205H38A	—	—	16.90	57.7	3.05	10.4	20.20	69.0	3.05	10.4	
	0	66.8	C-SDP205H38B	—	_	16.90	57.7	3.05	10.4	20.20	69.0	3.05	10.4	
	7	72.0	C-SDP225H38A	—	—	19.00	64.9	3.05	10.4	22.70	77.5	3.05	10.4	
	1	73.0	C-SDP225H38B		—	19.00	64.9	3.05	10.4	22.70	77.5	3.05	10.4	

R410A - B9(60Hz 380V)

	Out Put	Displac	Comprosoor	Compressor	Starting		60	Hz		Outline
Pha		ement	Compressor Model	Compressor Code	Method	Nominal	Capacity	C	OP	Graph
	HP	cm ³ /rev	Model	Code	Method	kW	kBTU/h	W/W	BTU/Wh	Code
3	6	66.8	C-SDP205H39A	—	—	20.20	69.0	3.05	10.4	Developing
3	0	00.0	C-SDP205H39B		-	20.20	69.0	3.05	10.4	Developing

R410A - Inverter Drive Models (DC)

	Out Put	Displac	Comprospor	Input Power	Starting		90	Hz		Outline
Phase	OutFut	ement	Compressor Model	Source	Method	Nominal	Capacity	C	OP	Graph
	HP	cm ³ /rev	Woder	Oblice	Method	kW	kBTU/h	W/W	BTU/Wh	Code
_	5.5	38.0	C-SDP190H03A	200-240V		18.60	63.5	3.20	10.9	Developing
	6	42.3	C-SDP205H03A	200-2400	DC Inv	21.15	72.2	3.20	10.9	Developing
_	5.5	38.0	C-SDP190H02B	380-415V	DC IIIV	18.60	63.5	3.20	10.9	Developing
	6	42.3	C-SDP205H02B	560-4150		21.15	72.2	3.25	11.1	

for Refrigeration

	Out Put	Displac	Compressor	Compressor	Starting		50	Hz			60	Hz		Outline
Phase	OurPut	ement	Model	Compressor	Method	Nominal	Capacity	Input	Current	Nominal	Capacity	Input	Current	Graph
	HP	cm ³ /rev	Woder	Code	Method	kW	kBTU/h	kW	А	kW	kBTU/h	kW	A	Code
	5	89.2	C-SC373L3G	809 250 63	—	6.80	23.2	4.70	16.3	8.05	27.5	5.50	17.5	
	6	104.0	C-SC453L3G	809 260 63	—	7.95	27.1	5.20	18.0	9.35	31.9	6.10	19.3	
3	7	120.0	C-SC523L3G	809 270 63	—	9.30	31.8	6.05	21.6	10.95	37.4	7.00	22.2	
	8	137.0	C-SC603L3G	809 280 63	—	10.40	35.5	7.00	23.5	12.30	42.0	8.25	26.0	
	10	171.2	C-SC753L3G	809 200 63	—	13.20	45.1	8.45	28.0	15.60	53.3	10.00	31.0	

R22 for Refrigeration - B3 (50Hz 200V / 60Hz 200-220V)

R22 for Refrigeration - B8 (50Hz 380-415V / 60Hz 440-460V)

	Out Put	Displac	Comprosoor	Comprosoor	Starting		50	Hz			60	Hz		Outline
Phase		ement	Compressor Model	Compressor Code	Method	Nominal	Capacity	Input	Current	Nominal	Capacity	Input	Current	Graph
	HP	cm ³ /rev	Woder	Code	Method	kW	kBTU/h	kW	А	kW	kBTU/h	kW	А	Code
	4	66.8	C-SB303L8A	809 840 68	—	5.30	18.1	3.40	5.8	6.40	21.9	4.05	5.9	Developing
	5	83.2	C-SB373L8A	809 850 68	—	6.80	23.2	4.10	7.0	8.20	28.0	4.80	7.0	Developing
3	6	104.0	C-SC453L8H	809 261 68	—	7.95	27.1	5.14	9.1	9.47	32.3	5.98	8.9	
3	7	120.0	C-SC523L8H	809 271 68	—	9.30	31.8	5.98	11.0	11.09	37.9	6.86	10.2	
	8	137.0	C-SC603L8H	809 281 68	—	10.40	35.5	6.92	11.9	12.46	42.5	8.09	12.0	
	10	171.2	C-SC753L8H	809 201 68	—	13.20	45.1	8.35	14.2	15.80	53.9	9.80	14.3	

R22 for Refrigeration - B9 (60Hz 380V)

	Out Put	Displac	Comproses	Compressor	Charting		60	Hz		Outline
Phase	OutPut	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	Input	Current	Graph
	HP	cm ³ /rev	Woder	Code	Method	kW	kBTU/h	kW	А	Code
	6	104.0	C-SC453L9H	809 261 69	—	9.45	32.3	6.00	11.3	Developing
3	7	120.0	C-SC523L9H	809 271 69	—	11.00	37.6	6.75	12.3	Developing
5	8	137.0	C-SC603L9H	809 281 69	—	12.00	41.0	7.80	13.7	
	10	171.2	C-SC753L9H	809 201 69	—	15.90	54.3	9.50	16.7	

R22 for Refrigeration - Inverter Drive Models (AC)

	Out Put	Displac	Compressor	Compressor	Starting		50Hz ((161V)			70Hz ((190V)		Outline
Phase	Outrut	ement	Model	Compressor	Method	Nominal	Capacity	Input	Current	Nominal	Capacity	Input	Current	Graph
	HP	cm ³ /rev	Woder	Code	Method	kW	kBTU/h	kW	А	kW	kBTU/h	kW	А	Code
3	8	144.1	C-SCV603L0H	809 281 60	—	13.40	45.8	7.40	29.2	18.60	63.5	10.60	35.2	

R404A for Refrigeration - B3 (50Hz 200V / 60Hz 200-220V)

	Out Put	Displac	Comprospor	Comprosoor	Starting		50	Hz			60	Hz		Outline
Phase		ement	Compressor Model	Compressor Code	Method	Nominal	Capacity	Input	Current	Nominal	Capacity	Input	Current	Graph
	HP	cm ³ /rev	Woder	Code	Method	kW	kBTU/h	kW	A	kW	kBTU/h	kW	A	Code
	5	89.2	C-SCN373L3H	809 151 63	—	6.95	23.7	5.10	19.2	8.20	28.0	5.90	19.3	
	6	104.0	C-SCN453L3H	809 161 63	—	8.10	27.7	5.85	21.6	9.55	32.6	6.80	21.9	
3	7	120.0	C-SCN523L3H	809 171 63	—	9.25	31.6	6.50	23.6	10.90	37.2	7.55	24.2	
3	8	137.0	C-SCN603L3H	809 181 63	—	10.50	35.8	7.45	27.0	12.40	42.3	8.85	28.3	
	10	171.2	C-SCN753L3H	809 101 63	—	13.05	44.6	9.15	32.5	15.20	51.9	10.75	34.4	
	12.5	214.8	C-SCN953L3H	809 121 63	—									Developing

R404A for Refrigeration - B8 (50Hz 380-415V / 60Hz 440-460V)

	Out Put	Displac	Comprosoor	Comprosoor	Starting		50	Hz			60	Hz		Outline
Phase		ement	Compressor Model	Compressor Code	Method	Nominal	Capacity	Input	Current	Nominal	Capacity	Input	Current	Graph
	HP	cm ³ /rev	Woder	Code	Method	kW	kBTU/h	kW	А	kW	kBTU/h	kW	A	Code
	4	66.8	C-SBN303L8A	809 940 68	—	5.30	18.1	3.75	6.58	6.30	21.5	4.45	7.10	Developing
	5	83.2	C-SBN373L8A	809 950 68	—	6.80	23.2	4.50	7.93	8.10	27.7	5.30	8.41	Developing
3	6	104.0	C-SCN453L8H	809 161 68	—	8.10	27.7	5.85	10.8	9.55	32.6	6.80	11.0	
5	7	120.0	C-SCN523L8H	809 171 68	—	9.25	31.6	6.50	11.8	10.90	37.2	7.55	12.1	
	8	137.0	C-SCN603L8H	809 181 68	—	10.50	35.8	7.45	13.5	12.40	42.3	8.85	14.2	
	10	171.2	C-SCN753L8H	809 101 68	_	13.05	44.6	9.15	16.3	15.20	51.9	10.75	17.2	

R404A for Refrigeration - B9 (60Hz 380V)

	Out Put	Displac	Compressor	Compressor	Charting		60	Hz		Outline
Phase	OutPut	ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	Input	Current	Graph
	HP	cm ³ /rev	Woder	Code	Method	kW	kBTU/h	kW	А	Code
	6	104.0	C-SCN453L9H	809 161 69	—	10.20	34.8	6.70	12.3	Developing
3	7	120.0	C-SCN523L9H	809 171 69	—	11.70	39.9	7.50	13.4	Developing
5	8	137.0	C-SCN603L9H	809 181 69	—	13.10	44.7	8.80	15.4	
	10	171.2	C-SCN753L9H	809 101 69	_	16.50	56.3	10.60	18.5	

R404A for Refrigeration - Inverter Drive Models (AC)

	Out Put	Displac	Comprospor	Comprosoor	Starting		50Hz ((160V)			70Hz ((192V)		Outline
Phase		ement	Compressor Model	Compressor Code	Starting Method	Nominal	Capacity	Input	Current	Nominal	Capacity	Input	Current	Graph
	HP	cm ³ /rev	Woder	Code	Method	kW	kBTU/h	kW	А	kW	kBTU/h	kW	А	Code
3	8	144.1	C-SCVN603L0H	809 181 60	—	14.30	48.8	8.15	32.6	19.30	65.9	11.80	39.0	
3	10	171.2	C-SCVN753L0H	809 101 60	—									Developing

Rating Condition

	R22 / R407	7C / R410A
	C°	°F
Condensing Temperature	54.4	130
Evaporating Temperature	7.2	45
Sub Cooling	8.3	15
Super Heating	11.1	20

Rating Condition for EVI

	Cooling		Heating	
	°C	°F	C°	°F
Condensing Temperature	54.4	130	50	122
Evaporating Temperature	7.2	45	-7	19.4
Sub Cooling	8.3	15	2	3.6
Super Heating	11.1	20	11.1	20

Rating Condition for Refrigeration (R22 / R404A)

	fixed speed		Inverter	
	C°	°F	℃	°F
Condensing Temperature	50	122	50	122
Evaporating Temperature	-15	5	-10	14
Sub Cooling	0	0	0	0
Suntion Gas Temperature	18.3	65	18.3	65

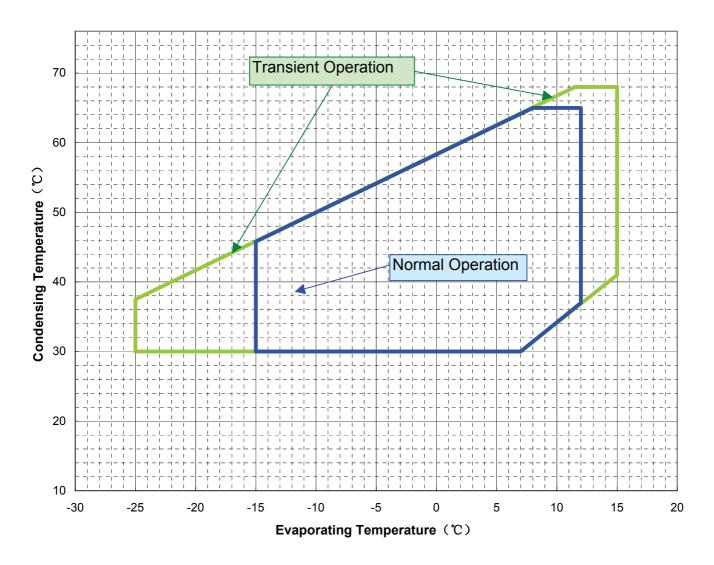
Power Source

Code	Phase	50Hz	60Hz
B3	3 Phase	200V	200-220V
В5	1 Phase	220-240V	-
	3 Phase	220-240V	-
B6	1 Phase	-	208-230V
BO	3 Phase	-	208-230V
B8	3 Phase	380-415V	440(-460)V
B9	3 Phase		380V

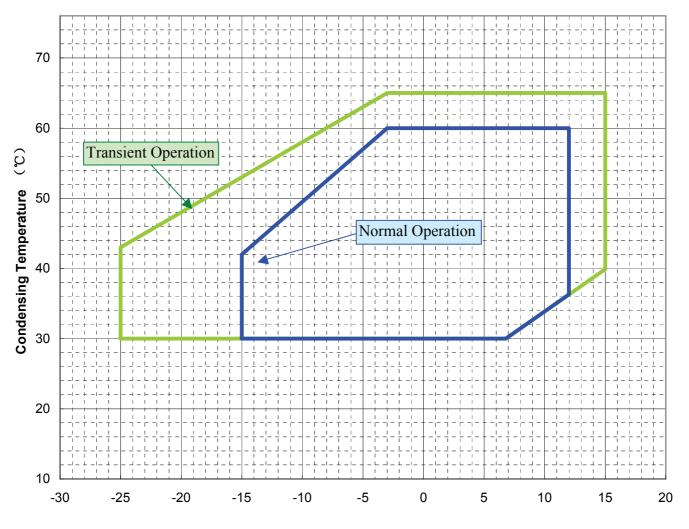
Subscripts of Outline Graph Code

Subscript	explanation		
t	The connection port of oil balance tube is attached		
S	Screw type power supply connection		

Suction Gas Superheat: 11.1K Refrigerant: R22

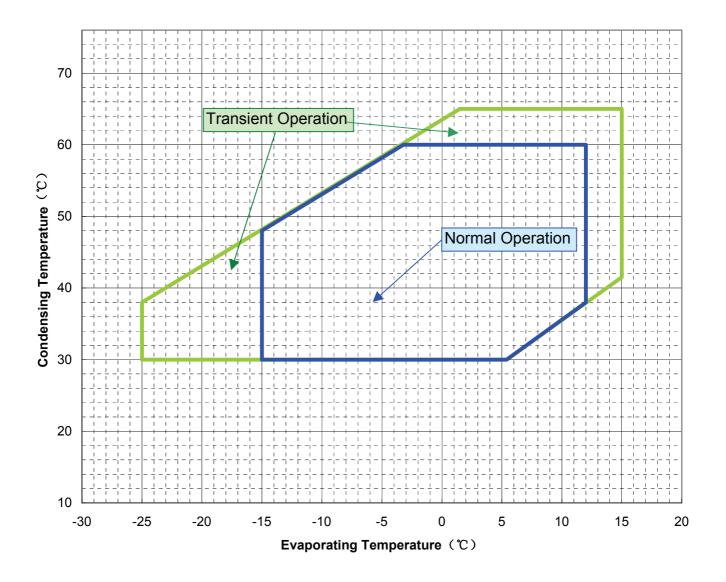


Suction Gas Superheat :9K Refrigerant : R407C

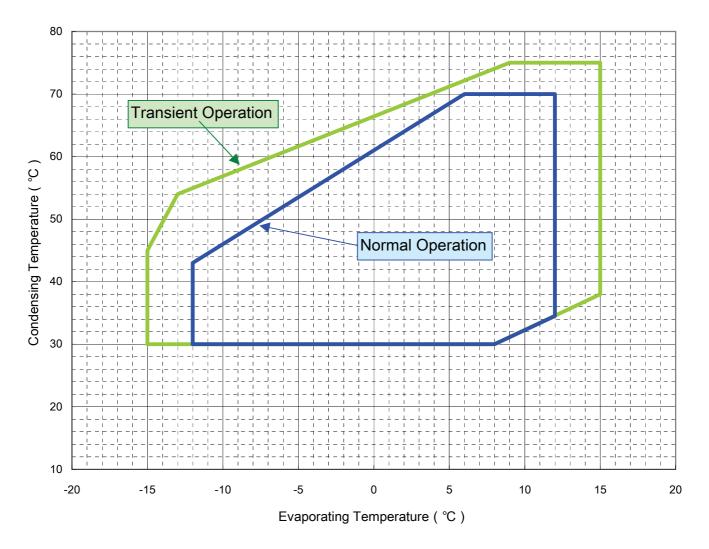


Evaporating Temperature (°C)

Suction Gas Superhea : 11.1K. Refrigerant : R410A.

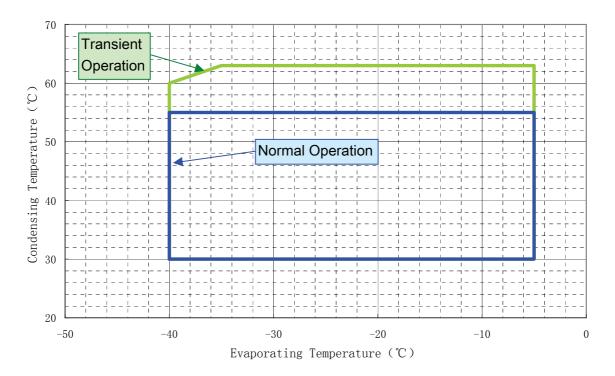


Suction Gas Super Heat: 11.1K Refrigerant: R134a



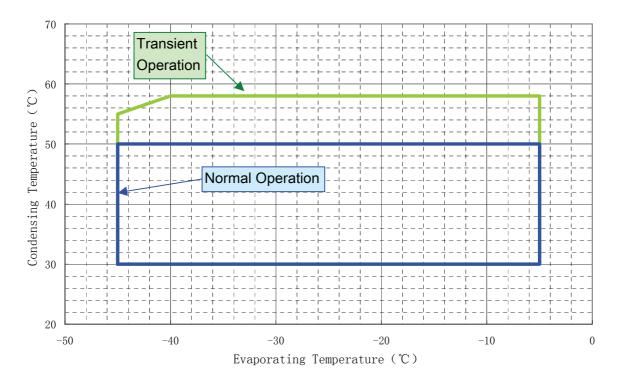
Operating Envelope (for Refrigeration R22)

Suction Gus Temperature: 18.3°C Compressor Cooling: Liqud Injection



Operating Envelope (for Refrigeration R404A)

Suction Gus Temperature: 18.3°C Compressor Cooling: Liqud Injection



APPLICATION STANDARD & LIMIT (R22)

The following requirements apply to Vertical type Hermetic Scroll Compressors:

Standard: Applicable to ordinary conditions in Japan JIS B8616 or equivalent conditions, such as standard rating conditions, maximum operating conditions, low temperature conditions, etc.

No.	Item	Standard	Limit	Note
1	Refrigerant	R22(Meet the standar		
2	Evaporating Temp.	-15~+12°C/[5~54 °F] 0.20~0.62MPa(G)/[29~90psig]	-25~+15°C/[-13~59 °F] 0.10~0.69MPa(G)/[14.5~100psig]	Comp. Suction Pressure
3	Condensing Temp.	+30~+65°C/[86~149 °F] 1.09~2.60MPa(G)/[158~377psig]	+68°C/[155 °F] 2.78MPa(G)/[403psig]	Comp. Discharge Pressure
4	Compression Ratio	2~6	10	
5	Winding Temp.	115℃/[240 °F] Max.	125°C/[257 °F]	
		Upper Limit: 90°C/[194 °F]	Max.	
6	Shell Bottom Temp.	Lower Limit: Evaporating Temp	o.+12K / [21 °F] Min.	When comp. Is running
		Ambient Temp.	+11K / [20 °F] Min.	When comp. shuts off
7	Discharge Gas Temp.	115℃/[240 °F] Max.	C-SB:130℃/[266°F] Max.	Within 100mm(4in) of the discharge fitting.
1	Discharge Gas Temp.	113 C/[240 T] Wax.	C-SC:135℃/[275°F] Max.	Inside of the well pipe on the top of comp.
8	Suction Gas Temp.	Superheat: 5K/[10 °F] Min.	No excessive noise	It should meet the requirement of item 5, 6, 7 and 14 within 300mm of the suction fitting.
9	Running Voltage	Within ±10% of	the rated voltage	Voltage at comp. terminals.
10	Starting Voltage	Three Phase Models: 85°	% of the rated voltage min.	Dropped voltage at comp.
10	Starting voltage	Single Phase Models: 90% of the rated voltage min.		terminals.
		ON Period: Until the oil level returns t	o the center of the lower bearing	For at least 7 minutes -ON/3
11	On/Off Period	OFF Period: Until balance of high and	l low pressure is obtained	minutes-OFF is recommendable.
12	Refrigerant Charge	Oil/Refrigera	nt(wt.)>0.35	Specific gravity of the Oil: 0.92.
13	Life Time	200,000) cycle	
14	Minimum Oil Level		C-SB:Bottom of the lower bearing	
		C-SC:No less than 70% of the initial oil charge		
15	Abnormal Pressure	Pressure Rise: 3.0MPa(G) /[435psig] Max.		By high pressure switch
	Rise/Drop			By low pressure switch
16	System Moisture Level	200ppm Max.		
17	System Uncondensable	1 Vol.% Max.		24 hrs. after vacuuming: 1.01kPa
	Gas Level	Residual Oxygen 0.1 Vol.% Max.		Max.
18	Tilt	5° Deg.Max.		

Limit: Applicable to transitional brief periods, such as start-up and beginning of defrost mode.

Operation beyond the above limits must be approved by Dalian SANYO Compressor Co., Ltd.

(G): Gauge Pressure

Notes

1 Installation should be completed within 15 minutes after removing the rubber plugs.

2 Do not use the compressor to compress air.

3 Do not energize the compressor under vacuumed conditon.

4 Evacuation and Refrigerant charge. Evacuate internal section in the refrigeration system from high and low pressure sides and charge liquid refrigerant from condenser outlet side. Additional charge shall be done with gas condition from low side.

5 Do not tilt over the compressor while carrying it.

6 Do not remove the paint.

7 Crankcase heater is required when the oil sump temperature is too low to meet the requirement of item 6 .

8 Voltage fluctuation between compressor terminals, during operation, shall be within 2% of the rated voltage.

9 Do not operate compressor in reverse rotational direction.

 10 Suction strainers are recommended for all applications.

 11 Copper Piping Stress
 Start/Shutdown
 34.32 N/mm² Max.

 Run
 12.26 N/mm² Max.

APPLICATION STANDARD & LIMIT (R407C)

The following requirements apply to Vertical type Hermetic Scroll Compressors:

Standard: Applicable to ordinary conditions in Japan JIS B8616 or equivalent conditions, such as standard rating conditions, maximum operating conditions, low temperature conditions, etc.

No.	Item	Standard	Limit	Note
1	Refrigerant	R4		
2	Evaporating Temp.	-15~+12°C/[5~54 °F] 0.20~0.65MPa(G)/[29~94psig]	-25~+15℃/[-13~59 °F] 0.07~0.73MPa(G)[(10~106psig]	Average temp. of evaperator Inlet and outlet.
3	Condensing Temp.	+30~+60°C/[86~140 °F] 1.17~2.56MPa(G)/[170~371psig]	+65°C/[149 °F] 2.88MPa(G)/[418psig]	Average temp. of condensor Inlet and outlet.
4	Compression Ratio	2~6	10	
5	Winding Temp.	115℃/[240 °F] Max.	125°C/[257 °F]	
6	Shell Bottom Temp.	Upper Limit: 90°C/[194 °F Lower Limit: Evaporating Temp Ambient Temp.] Max. p.+12K / [21 °F] Min. +11K / [20 °F] Min.	When comp. Is running When comp. shuts off
7	Discharge Cos Tomp		C-SB:130°C/[266°F] Max.	Within 100mm(4in) of the discharge fitting.
7	Discharge Gas Temp.	115℃/[240 °F] Max.	C-SC:135℃/[275°F] Max.	Inside of the well pipe on the top of comp.
8	Suction Gas Temp.	Superheat: 5K/[10 °F] Min.	No excessive noise	It should meet the requirement of item 5, 6, 7 and 14 within 300mm of the suction fitting.
9	Running Voltage	Within ±10% of	the rated voltage	Voltage at comp. terminals.
10	Starting Voltage		% of the rated voltage min. % of the rated voltage min.	Dropped voltage at comp. terminals.
11	On/Off Period	ON Period: Until the oil level returns t OFF Period: Until balance of high and	-	For at least 7 minutes -ON/3 minutes-OFF is recommendable
12	Refrigerant Charge	Oil/Refrigera	nt(wt.)≫0.35	Specific gravity of the Oil: 0.94.
13	Life Time	200,00	0 cycle	
14	Minimum Oil Level	C-SB: Center of the lower bearing C-SB:Bottom of the lower bearing C-SC:No less than 70% of the initial oil charge		
45	Abnormal Pressure	Pressure Rise: 3.20MPa(G) /[464psig] Max.		By high pressure switch
15	Rise/Drop			By low pressure switch
16	System Moisture Level	200pp		
17	System Uncondensable Gas Level	1 Vol.% Max. Residual Oxygen 0.1 Vol.% Max.		24 hrs. after vacuuming: 1.01kPa Max.
18	Tilt	5° De	g.Max.	

Limit: Applicable to transitional brief periods, such as start-up and beginning of defrost mode.

Operation beyond the above limits must be approved by Dalian SANYO Compressor Co., Ltd.

(G): Gauge Pressure

Notes

1 Installation should be completed within 15 minutes after removing the rubber plugs.

2 Do not use the compressor to compress air.

3 Do not energize the compressor under vacuumed conditon.

4 Evacuation and Refrigerant charge: Evacuate internal section in the refrigeration system from high and low pressure sides and charge liquid refrigerant from condenser outlet side. Additional charge shall be done with gas condition from low side.

5 Do not tilt over the compressor while carrying it.

6 Do not remove the paint.

7 Crankcase heater is required when the oil sump temperature is too low to meet the requirement of item 6.

8 Voltage fluctuation between compressor terminals, during operation, shall be within 2% of the rated voltage.

9 Do not operate compressor in reverse rotational direction.

10 Suction strainers are recommended for all applications.

11 Copper Piping Stress

Run

Start/Shutdown

34.32 N/mm² Max. 12.26 N/mm² Max.

APPLICATION STANDARD & LIMIT (R410A)

The following requirements apply to Vertical type Hermetic Scroll Compressors:

Standard: Applicable to ordinary conditions in Japan JIS B8616 or equivalent conditions, such as standard rating conditions, maximum operating conditions, low temperature conditions, etc.

No.	Item	Standard	Limit	Note
1	Refrigerant	R4		
2	Evaporating Temp.	-15~+12℃/[5~54 °F] 0.38~1.05MPa(G)/[55~152psig]	-25~+15℃/[-13~59 °F] 0.23~1.15MPa(G)/[33~167psig]	Comp. Suction Pressure
3	Condensing Temp.	+30~+60°C/[86~140 °F] 1.78~3.75MPa(G)/[258~544psig]	+65°C/[149 °F] 4.18MPa(G)/[606psig]	Comp. Discharge Pressure
4	Compression Ratio	2~6	8	
5	Winding Temp.	115℃/[240 °F] Max.	125℃/[257 °F]	
6	Shell Bottom Temp.		Max. +12K / [21 °F] Min. +11K / [20 °F] Min.	When comp. Is running When comp. shuts off
7	Discharge Cas Tomp		C-SB:130°C/[266°F] Max.	Within 100mm(4in) of the discharge fitting.
7	Discharge Gas Temp.	115℃/[240 °F] Max.	C-SC:135℃/[275°F] Max.	Inside of the well pipe on the top o comp.
8	Suction Gas Temp.	Superheat: 5K/[10 °F] Min.	No excessive noise	It should meet the requirement of item 5, 6, 7 and 14 within 300mm of the suction fitting.
9	Running Voltage	Within ±10% of	the rated voltage	Voltage at comp. terminals.
10	Starting Voltage		% of the rated voltage min. % of the rated voltage min.	Dropped voltage at comp. terminals.
11	On/Off Period		ON Period: Until the oil level returns to the center of the lower bearing OFF Period: Until balance of high and low pressure is obtained	
12	Refrigerant Charge	Oil/Refrigera	ant(wt.⊳0.35	Specific gravity of the Oil: 0.94.
13	Life Time	200,00		
14	Minimum Oil Level	C-SB: Center of the lower bearing C-SB:Bottom of the lower bearing C-SC:No less than 70% of the initial oil charge		
	Abnormal Pressure	Pressure Rise: 4.15MPa(G)/[(602psig] Max.		By high pressure switch
15	Rise/Drop Pressure Drop: 0.15MPa(G) /[22psig] Min.		By low pressure switch	
16	System Moisture Level	200ppm Max.		
17	System Uncondensable Gas Level	1 Vol.% Max. Residual Oxygen 0.1 Vol.% Max.		24 hrs. after vacuuming: 1.01kPa Max.
18	Tilt		g.Max.	

Operation beyond the above limits must be approved by Dalian SANYO Compressor Co., Ltd.

(G): Gauge Pressure

Notes

1 Installation should be completed within 15 minutes after removing the rubber plugs.

2 Do not use the compressor to compress air.

3 Do not energize the compressor under vacuumed conditon.

4 Evacuation and Refrigerant charge: Evacuate internal section in the refrigeration system from high and low pressure sides and charge liquid refrigerant from condenser outlet side. Additional charge shall be done with gas condition from low side.

5 Do not tilt over the compressor while carrying it.

6 Do not remove the paint.

7 Crankcase heater is required when the oil sump temperature is too low to meet the requirement of item 6.

8 Voltage fluctuation between compressor terminals, during operation, shall be within 2% of the rated voltage.

9 Do not operate compressor in reverse rotational direction.

10 Suction strainers are recommended for all applications.

11 Copper Piping Stress

Start/Shutdown34.32 N/mm² Max.Run12.26 N/mm² Max.

APPLICATION STANDARD & LIMIT (R134a)

The following requirements apply to Vertical type Hermetic Scroll Compressors:

Standard: Applicable to ordinary conditions in Japan JIS B8616 or equivalent conditions, such as standard rating conditions, maximum operating conditions, low temperature conditions, etc.

No.	Item	Standard	Limit	Note
1	Refrigerant	R1		
2	Evaporating Temp.	-12~+12°C/[10~54 °F] 0.09~0.34MPa(G)/[13~49psig]	-15~+15℃/[5~59 °F] 0.06~0.39MPa(G)[(9~57psig]	Comp. Suction Pressure
3	Condensing Temp.	+30~+70 ℃/[86~158 °F] 0.67~2.02MPa(G)/[97~293psig]	+75℃/[167 °F] 2.26MPa(G)/[328psig]	Comp. Discharge Pressure
4	Compression Ratio	2~6	10	
5	Winding Temp.	115℃/[240 °F] Max.	125℃/[257 °F]	
		Upper Limit: 90C/[194 °F]	Max.	
6	Shell Bottom Temp.	Lower Limit: Evaporating Temp.	+12K / [21 °F] Min.	When comp. Is running
		Ambient Temp.	+11K / [20 °F] Min.	When comp. shuts off
7	Disebarga Cas Tamp	145°0/[240.°⊑] May	C-SB:130℃/[266°F] Max.	Within 100mm(4in) of the discharge fitting.
1	Discharge Gas Temp.	115℃/[240 °F] Max.	C-SC:135℃/[275°F] Max.	Inside of the well pipe on the top of comp.
8	Suction Gas Temp.	Superheat: 5K/[10 °F] Min.	No excessive noise	It should meet the requirement of item 5, 6, 7 and 14 within 300mm of the suction fitting.
9	Running Voltage	Within ±10% of	the rated voltage	Voltage at comp. terminals.
10	Starting Voltage	Three Phase Models: 85	% of the rated voltage min.	Dropped voltage at comp.
10	Starting Voltage	Single Phase Models: 90% of the rated voltage min.		terminals.
11	On/Off Period	ON Period: Until the oil level returns to	the center of the lower bearing	For at least 7 minutes -ON/3
		OFF Period: Until balance of high and low pressure is obtained		minutes-OFF is recommendable.
12	Refrigerant Charge	Oil/Refrigera	nnt(wt.)>0.35	Specific gravity of the Oil: 0.94.
13	Life Time	200,00	0 cycle	
14	Minimum Oil Level	C-SB: Center of the lower bearing	C-SB:Bottom of the lower bearing	
14		C-SC:No less than 70% of the initial oil charge		
15	Abnormal Pressure	Pressure Rise: 2.40MPa(G) /[348psig] Max.		By high pressure switch
10	Rise/Drop	Pressure Drop: 0.03MPa(G)/[4.35psig] Min.		By low pressure switch
16	System Moisture Level	200pp		
17	System Uncondensable			24 hrs. after vacuuming: 1.01kPa
	Gas Level	Residual Oxygen 0.1 Vol.% Max.		Max.
18	Tilt	5° De		

Limit: Applicable to transitional brief periods, such as start-up and beginning of defrost mode.

Operation beyond the above limits must be approved by Dalian SANYO Compressor Co., Ltd.

(G): Gauge Pressure

Notes

1 Installation should be completed within 15 minutes after removing the rubber plugs.

2 Do not use the compressor to compress air.

3 Do not energize the compressor under vacuumed conditon.

4 Evacuation and Refrigerant charge: Evacuate internal section in the refrigeration system from high and low pressure sides and charge liquid refrigerant from condenser outlet side. Additional charge shall be done with gas condition from low side.

5 Do not tilt over the compressor while carrying it.

6 Do not remove the paint.

7 Crankcase heater is required when the oil sump temperature is too low to meet the requirement of item 6 .

8 Voltage fluctuation between compressor terminals, during operation, shall be within 2% of the rated voltage.

9 Do not operate compressor in reverse rotational direction.

10 Suction strainers are recommended for all applications.

11 Copper Piping Stress	Start/Shutdown	34.32 N/mm ² Max.
	Run	12.26 N/mm ² Max.

APPLICATION STANDARD&LIMIT(R22 for Refrigeration)

The following requirements apply to Vertical type Hermetic Scroll Compressors. Standard : Applicable to ordinary conditions(including standard, over-load and low-temp. conditions). Limit : Applicable to transitional short periods, such as starting and early stage of defrost mode.

No.	Item	Standard	Limit	Note
1	Refrigerant	R22(Meet the standar		
2	Evaporating Temp.	- 40 ~ - 5°C		
		(0.004 ~ 0.3	320 MPa(G))	Comp. Suction Pressure
3	Condensing Temp.	+ 30 ~ + 55°C	+ 63°C	Ensure the pressure difference of thermal expansion valve be within
		(1.09~2.08 MPa(G))	(2.49 MPa(G))	0.8MPa(G) Min.
4	Compression Ratio		Max	
5	Winding Temp.	90°C Max	110°C	
		Upper Limit : 90°C Max		
6	Shell Bottom Temp.	Lower Limit: Evaporating Temp.+ 12	K Min (When comp. Is running)	To install crackcase heater
		Ambient Temp.+ 11K M	lin (When comp. shuts off)	
-7	Diashaana Osa Taana	115°C Max	125℃	Inside of the well pipe on the top of
7	Discharge Gas Temp.	Set discharge gas thermo s	ensor as 128C OFF,75°C ON	comp.
8	Suction Gas Temp.	18°C Max	No excessive noise	It should meet the requirement of item 5,6,7and 14 within 300mm of the
		Superheat:10K Min.	No increase of current or vibration	suction fitting.
9	Running Voltage	Within±10% of	the rated voltage	Voltage at comp. Terminals
10	Starting Voltage	85% of the ratio	ted voltage min.	Dropped voltage at comp. Terminals.
11	On/Off Period	ON Period:Until the oil level retruns t		For at least 7 minutes-ON/3 minutes-
		OFF Period:Until balance of high and	d low pressure side is obtained.	OFF is recommendable
12	Refrigerant Charge	Charged Volume: to minimize refrige	arged Volume: to minimize refrigerent charge as far as possible.	
		No FLASH GAS occurs before expan	nsion valve	pressure of system to decide a reasonable quantity
13	Life Time	200,000	cycle Max.	
14	Oil Level	Keep oil level above LOW level of sig		
15	Abnormal Pressure Rise	Pressure Rise: 2.55MPa(G) Max.		By high pressure switch
	Abnormal Pressure Drop	Pressure Drop: -0.02MPa(G) Min.		By low pressure switch
16	System Moisture Level	Balance moisture in Refrigerant circuit at the beginning:200ppm Max. Recommend the componet on the right when drier is needed.		Dry core:D-S type made by SANYO
17	System Uncondensable	1 Vol.% Max.		24 hrs. after vacuuming:1.01 kPa
	Gas Level	Residual Oxygen 0.1 Vol.% Max.		Max.
18	Tilt	5° De	g.Max.	

Operation beyond above limits must be approved by Dalian Sanyo Compressor Co.,Ltd. (G) : GAUGE PRESSURE

Notes

1.Installation should be completed within 15minutes after removing the rubber plugs.

2.Do not use the compressor to compress air.

3.Do not energize the compressor under vacuumed condition.

4.Install the compressors into the units, when it operates after charging

5.Do not tilt over the compressor while carrying it.

6.Do not remove the paint.

7.Crankcase heater is required when the oil sump temperature is too low to meet the requirement of item .

8.Voltage fluctuation between compressor terminals, during operation, shall be within 2% of the rated voltage.

9.Do not operate compressor in reverse rotational direction.

10.Set filters on each line as suction,oil supplying.

11. The stress of tubing(copper tube) should be below 34.32N/mr, when it starts or stops, and below 12.26 N/mr, when it operates.

APPLICATION STANDARD&LIMIT(R404A for Refrigeration)

The following requirements apply to Vertical type Hermetic Scroll Compressors. Standard : Applicable to ordinary conditions(including standard, over-load and low-temp. conditions). Limit : Applicable to transitional short periods, such as starting and early stage of defrost mode.

No.	Item	Standard	Limit	Note
1	Refrigerant	R4		
2	Evaporating Temp.	- 40~ - 5°C (0.004~0.411 MPa(G))		Comp. Suction Pressure
3	Condensing Temp.	+ 30~ + 55°C	+ 58°C	Ensure the pressure difference of thermal expansion valve be within
	Osmanssian Datis	(1.31~2.18 MPa(G))	(2.63 MPa(G))	0.8MPa(G) Min.
4	Compression Ratio	90°C Max	Max 110°C	
5	Winding Temp.		110°C	
6	Shell Bottom Temp.	Upper Limit : 90°C Max Lower Limit : Evaporating Temp.+ 1 Ambient Temp.+ 11K	2K Min(When comp. Is running) Min(When comp. shuts off)	To install crackcase heater
-		115°C Max	125°C	Inside of the well pipe on the top of
7	Discharge Gas Temp.	Set discharge gas thermo sensor as 128C OFF,75°C ON		comp.
8	Suction Gas Temp.	18°C Max	No excessive noise No increase of current or vibration	It should meet the requirement of item 5,6,7and 14 within 300mm of the suction fitting.
9	Running Voltage		the rated voltage	Voltage at comp. Terminals
-	Starting Voltage		ed voltage min.	Dropped voltage at comp. Terminals.
11	On/Off Period	ON Period:Until the oil level retruns OFF Period:Until balance of high ar		For at least 7 minutes-ON/3 minutes-OFF is recommendable
12	Refrigerant Charge	Charged Volume: to minimize refrigerent charge as far as possible.		Use the cooling temperature pressure of system to decide a reasonable quantity
13	Life Time	200,000 0		
14	Oil Level	Keep oil level above LOW level of s		
15	Abnormal Pressure Rise	Pressure Rise: 2.78MPa(G) Max.		By high pressure switch
	Abnormal Pressure Drop			By low pressure switch
16	System Moisture Level			Dry core:D-S type made by SANYO
17	System Uncondensable Gas Level			24 hrs. after vacuuming:1.01 kPa Max.
18	Tilt		g.Max.	
-			~	

Operation beyond above limits must be approved by Dalian Sanyo Compressor Co.,Ltd. (G) : GAUGE PRESSURE

Notes

1.Installation should be completed within 15minutes after removing the rubber plugs.

2.Do not use the compressor to compress air.

3.Do not energize the compressor under vacuumed condition.

4.Install the compressors into the units, when it operates after charging

5.Do not tilt over the compressor while carrying it.

6.Do not remove the paint.

7.Crankcase heater is required when the oil sump temperature is too low to meet the requirement of item .

8. Voltage fluctuation between compressor terminals, during operation, shall be within 2% of the rated voltage.

9.Do not operate compressor in reverse rotational direction.

10.Set filters on each line as suction,oil supplying.

11. The stress of tubing(copper tube) should be below 34.32N/mrf, when it starts or stops, and below 12.26 N/mrf when it operates.